

IN THE CLAIMS

Please amend claims 3, 5-13, 15, 16, 19, 21, 22-26, 28 and 29 as follows:

3. (amended) An imaging apparatus according to claim 1, wherein said first beam after said modification of the properties of said at least one of said first and second beams is focused on a position in front of said surface for reflection at said position.
5. (amended) An imaging apparatus according to claim 1 wherein said scanning means is arranged for scanning in at least two dimensions.
6. (amended) An imaging apparatus according to claim 1, further including one or more sources of said incident beam of short coherence length light.
7. (amended) An imaging apparatus according to claim 1 wherein said first beam modifying means includes means to modulate the phase difference between said first and second components.
8. (amended) An imaging apparatus according to claim 1 wherein said first beam modifying means includes means to polarize said first and second components.
9. (amended) An imaging apparatus according to claim 1 wherein said first beam modifying means includes interferometric means having at least one optical arm with adjustable mirror means.
10. (amended) An imaging apparatus according to claim 1, further including beamsplitting means for deflecting said reflected first and second beams to said monitoring and detecting means, when said reflected beams are returned along the optical path of the incident recombined first and second beams.
11. (amended) An imaging apparatus according to claim 1 wherein said second beam modifying means includes beam focusing means.

12. (amended) An imaging apparatus according to claim 1, including means for varying the direction of incidence of said recombined beams towards said surface, whereby to obtain at said monitoring and detecting means alternate left and right images of substantially overlapping areas.
13. (amended) An imaging apparatus according to claim 1, for imaging and/or measuring a surface comprising an ocular fundus.
15. (amended) An imaging apparatus according to claim 13 wherein said first and second beams are respectively a focussed beam arranged to be at least partially reflected from the cornea of an eye and a collimated beam for being focussed by the eye onto its fundus for reflection thereby.
16. (amended) An imaging apparatus according to claim 1, further including image analysing means to obtain three-dimensional topological data of said surface.
19. (amended) A method according to claim 17, wherein said first beam after said modification of the properties of at least one of said first and second beams is focussed on a position in front of said surface for reflection at said position.
21. (amended) A method according to claim 17 wherein said scanning is in at least two dimensions.
22. (amended) A method according to claim 17 wherein said modifying of said incident beam includes modulating the phase difference between said first and second components.
23. (amended) A method according to claim 17 wherein said modifying of said incident beam includes polarizing said first and second components.
24. (amended) A method according to claim 17 further including deflecting said reflected first and second beams for said monitoring and detecting, when said reflected beams are returned along the optical path of the incident recombined first and second beams.